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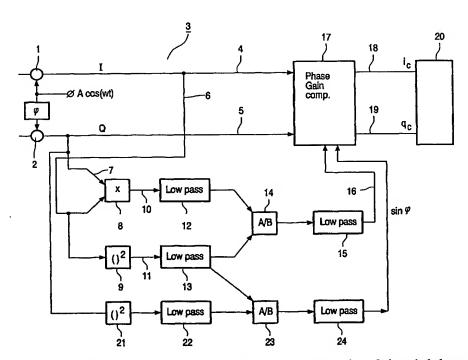
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[Continued on next page]

(54) Title: PHASE/GAIN IMBALANCE ESTIMATION OR COMPENSATION



(57) Abstract: The present invention relates to a receiver for estimation or compensation of phase imbalance or gain imbalance utilizing a QPSK modulation and a modulation scheme based on a complex scrambling code. According to the present invention the phase imbalance or gain imbalance is estimated or compensated before synchronisation. Thus, the phase imbalance and gain imbalance will not be able to introduce losses in the further phases of the connection.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{H04L} \end{array}$

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Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

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X	column 8, line 26 - line 38 US 2002/097812 A1 (WISS JOHN) 25 July 2002 (2002-07-25) page 1, right-hand column, paragraph 19 - page 2, left-hand column, paragraph 19 page 3, right-hand column, paragraph 47 page 3, right-hand column, paragraph 49 figure 5	1-11
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Patent family members are listed in annex.			
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